

01/09/02

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U.S. PTO

Express Mail Label No. EL034079426US

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
2002US303

Total Pages in this Submission  
28

## TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application  
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

Negative Deep Ultraviolet Photoresist

and invented by:

Takanori Kudo, Munirathna Padmanaban, Ralph R. Dammel, Medhat A. Toukhy

J1045 U.S. PTO  
10/042531  
01/09/02

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

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☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Enclosed are:

### Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 14 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications (if applicable)
  - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
  - d. ☐ Reference to Microfiche Appendix (if applicable)
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☐ Brief Description of the Drawings (if drawings filed)
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
2002US303

Total Pages in this Submission  
28

**Application Elements (Continued)**

3. ☐ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☐ Formal                      Number of Sheets \_\_\_\_\_
- b. ☐ Informal                      Number of Sheets \_\_\_\_\_
4. ☒ Oath or Declaration
- a. ☒ Newly executed *(original or copy)*                      ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☒ With Power of Attorney                      ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under  
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby  
incorporated by reference therein.
6. ☐ Computer Program in Microfiche *(Appendix)*
7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy *(identical to computer copy)*
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

**Accompanying Application Parts**

8. ☒ Assignment Papers *(cover sheet & document(s))*
9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☐ Information Disclosure Statement/PTO-1449                      ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class    ☒ Express Mail *(Specify Label No.):* EL034079438US

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(Only for new nonprovisional applications under 37 CFR 1.53(b))

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## Accompanying Application Parts (Continued)

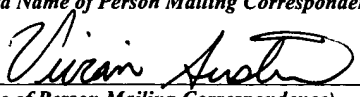
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Additional Enclosures (please identify below):

## Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

17. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

### Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

<b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)</b>			Docket No. <b>2002US303</b>
Applicant(s): <b>Takanori Kudo et al</b>			
Serial No. <b>NOT ASSIGNED</b>	Filing Date <b>January 9, 2002</b>	Examiner <b>NOT ASSIGNED</b>	Group Art Unit <b>NOT ASSIGNED</b>
Invention: <b>NEGATIVE DEEP ULTRAVIOLET PHOTORESIST</b>			
I hereby certify that the following correspondence: <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"><b>RECORDATION FORM COVER SHEET</b></div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on</p> <p style="text-align: center;"><u>January 9, 2002</u> <i>(Date)</i></p> <div style="text-align: right; margin-top: 20px;"><p><u>Vivian Austin</u> <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p><p> <i>(Signature of Person Mailing Correspondence)</i></p><p><u>EL034079438US</u> <i>("Express Mail" Mailing Label Number)</i></p></div>			
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**TRANSMITTAL LETTER  
(General - Patent Pending)**

Docket No.  
**2002US303**

In Re Application Of: **Takan ri Kudo et al**

Serial No.  
**NOT ASSIGNED**

Filing Date  
**January 9, 2002**

Examiner  
**NOT ASSIGNED**

Group Art Unit  
**NOT ASSIGNED**

Title: **NEGATIVE DEEP ULTRAVIOLET PHOTORESIST**

**TO THE ASSISTANT COMMISSIONER FOR PATENTS:**

Transmitted herewith is:

- |   |   |
|---|---|
| 1) Patent Application - pages 1 through 14    | 6) Postcard   |
| 2) Combined Declaration and Power of Attorney | 7) Certificate of Mailing by Express Mail for items 1 through 5 |
| 3) Utility Patent Application Transmittal     |   |
| 4) Recordation Form Cover Sheet               |   |
| 5) Assignment                                 |   |

In the above identified application.

- ☐ No additional fee is required.
- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☐ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \_\_\_\_\_
- ☐ Credit any overpayment.
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\_\_\_\_\_  
Signature

Dated: **January 9, 2002**

**Sangya Jain, Reg. No. 38,504  
Clariant Corporation  
70 Meister Avenue  
S merville, NJ 08876  
telephone (908) 429-3563**

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2002US303

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Invention: **NEGATIVE DEEP ULTRAVIOLET PHOTORESIST**

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Applicant(s): Takanori Kudo et al

Docket No.

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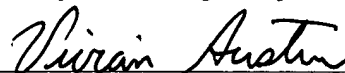
Invention: **NEGATIVE DEEP ULTRAVIOLET PHOTORESIST**

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Group Art Unit

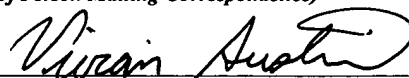
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Invention: **NEGATIVE DEEP ULTRAVIOLET PHOTORESIST**

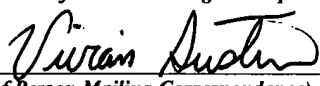
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Applicant(s): <b>Takanori Kudo et al</b>			
Serial No. <b>NOT ASSIGNED</b>	Filing Date <b>January 9, 2002</b>	Examiner <b>NOT ASSIGNED</b>	Group Art Unit <b>NOT ASSIGNED</b>
Invention: <b>NEGATIVE DEEP ULTRAVIOLET PHOTORESIST</b>			
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Group Art Unit

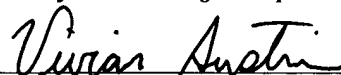
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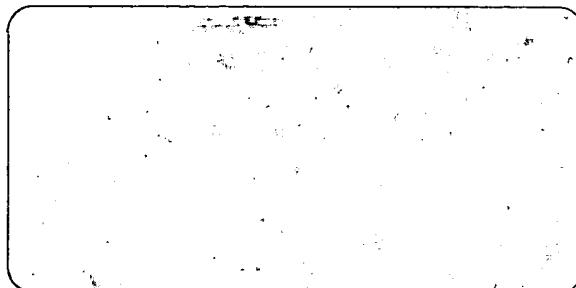
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- 5) Assignment
- 6) Certificates of Mailing by Express Mail for items 1 through 5

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